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HYDROZONE CORPORATION OF AMERICA



"Hydrozone Ozonators are Air-Cooled"

WATER PURIFICATION SYSTEMS
TRIATOMIC UNITS FOR
AIR PURIFICATION, ODOR
ELIMINATION AND DEHUMIDIFICATION
SWIMMING POOL EQUIPMENT

Member
Associated General Contractors
International House of New Orleans
International Water Engineers Association

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September 17, 1969

Dr Joshua Lederberg
Biochemist Stanford University
Stanford University
Stanford, California 90005

Dear Dr Lederberg:

I have just finished reading the statement of yours printed in the Washington Post on May 3, 1969 and reprinted in Prevention Magazine about people should take chlorination more seriously.

However Doctor, the ones that should take chlorination more seriously and what it is doing to the people, our water supplies, sewage waste effluents and ruining many products are the Corps of Engineers of our Government, many many Doctors and above all the poor old Rip Van Winkles of the former USPHS now called the DHE&W.

They are so obsessed with the idea that chlorine is the miracle of all time and have so brained washed their underlings in the various State Health Departments, that like the Ostrich, they do not want to see, hear or know that progress, science and technology has passed them by. However they have, thru their power, been able to crucify anyone that dares to say they are wrong and when I say crucify, I mean they have crucified Hydrozone for the past 30 years, my Brother first, Dr Harry Deegan Fleck, who knew more about Ozone its design, production and application to water, sewage waste effluents swimming pool waters and finally Air Pollution, then any other engineer or doctor in America. Finally I added to their crucification when I called them the greatest bunch of Rip Van Winkles who ever got together in one Department and a broom should be taken and they should be swept into the filthy and highly contaminated Potomac River.

Incidentally, there is one way I do have them over the barrel and that is, I ask how it is with their Offices being right in Washington and with all the money at their disposal they have been unable to clean up the once beautiful Potomac River or eliminate the fact that Washington, D. C. has one of the highest Air Pollution Rates in the country. That has burnt them up.

Let me tell you a little about Hydrozone. Away back when the Empire State, Chrysler and New York Central R. R. Buildings and 10 East 40th Street Building were built in New York City, the Owners of these buildings did not want their tenants to drink the highly chlorinated water of the City and so, they had us design, fabricate and install Hydrozone Bottle Water Plants. Incidentally when the Bottled Water Companies asked why they were not allowed to bring bottled water into the buildings, they were told that the Owners did not want bottles carried thru the polluted streets of New York to be put in coolers, plus they had no control over the sanitary conditions where the water was bottled and/or over the men who carried the water.

For over 20 years our Hydrozone Plants treated and purified the highly chlorinated water of the City of New York and produced the most sparkling pure, crystal clear, invigorating, palatable, healthy and "chlorine free water" ever produced and the Owners sold it to their discriminating tenants for \$1.25 per 5 gallon bottle. Bendiner and Schlessinger, perhaps the oldest Analytical House in America ran tests on a bottle of our water standing for 5 years and it showed the Bacteria count - 0 per cc 24 hours incubation, Members of the Coli-aerogenes group - None on five 10 cc portions tested and Test for Ozone ---- Positive.

The Unions then stepped in and wanted to force the buildings to hire one man for every floor to handle Hydrozone Water so you can imagine buildings 60 and 126 stories high doing such a thing and so they discontinued the use of our plants.

When the largest and most beautiful pool ever built in America - The Billy Rose Aquacade in the New York City World's Fair opened in 1939-1940 - it was Hydrozone that designed, fabricated and supervised the installation of our complete Hydrozone REAL Water Purification, Filtration and Recirculation Plant and in the 2 years of operation not one of the 75 Girls and Boys who swam in the show never contracted sore or burning eyes (Pink Eye) skin irritations, ear fungus and sinus ailments, plus the very expensive girls bathing suits never faded or rotted all of which things are prevalent around chlorinated pools.

The then USPHS became so irritated that we were in the World's Fair and right in the heart of New York City, that they sent a man from the City Health Office and one from the State to get bad samples of our Hydrozone Pool water. When they could not, they sent a man down from Washington and after two weeks he became so disgusted, he told us about what they were trying to do and resigned. Then the crucifixion started in earnest. However first off Billy Rose became mad at us because we would not install our system in his Aquacade on Paradise Island which due to chlorinated water there were from 5 to 10 girl and Boys out of each show and the expensive bathing suits of the girls were not alone rotting but due to the fading of the colors his color scheme was ruined in evening performance and his Wife Eleanor Holm refused to go to California to swim in the chlorinated pool water.

We then designed, fabricated and supervised the installation of a Million GPD Water Plant for the Town of Delhi, the Cow Country of New York State. Like vultures the Washington and New York State Boards of Health waited and tested and tested to find bad samples of water. Then came a very bad flood and the very thing my Brother complained about and his reason for wanting to change the Plant elsewhere was for fear of a flood because the plant was right below the Dam. It did happen and the whole plant was washed out. The Board of Health stepped in and made some deal and we were out. However just last year Mr Ralph Baker, Director of Waste Waters for the State of Florida and who also believes Ozonation is the answer to water and sewage problems, phoned and said he would like to bring a Gentlemen over to see me that I would be interested in meeting.

When they arrived, the Gentleman was none other but the former Mayor of Delhi and always bragged that Delhi had the only domestic spring water supply in the State. He also advised that the people of Delhi still talked about their spring water and told visitors the water they were drinking to-day - chlorinated - was nothing like they used to have.

Incidentally from May 7th in 1931 to Sept 29th the total cost of operating the complete plants at .02 Pr KW was \$97.84 and this was when we were using Dehydrite for cooling and not our new and improved operation.

We then took a small Hydrozone Portable Plant down to the Philadelphia Naval Shipyard whose Rear Admiral, Admiral Kussmann bet us we could not kill off the germs in the highly contaminated River Water of the Delaware. Following is the way the U. S. Medical Corps statement read after they tested the Raw Delaware River Water and our Hydrozone treated and purified Delaware River Water

Raw Water

Colonies to high to count

Treated sample - 0 Colonies

90% raw water) 23-30 colonies/cc
10% treated water added)

Then we loaned the same Unit to Dr Willem Rudolphs of Rutgers Experimental Research Station to treat Ocean Raw Salt Water

Sample of	Ozone ppm	total solids gm/L	chlo ides gm/L	Sulphase gm/L	Red Bacteria 20° c bacteria cc
Pool water (Shallow end)					
0	40.0	19.2	2.4	65,000	
1	37.4	17.6	2.8	290	
2	33.7	17.1	2.4	2	
3	35.0	17.6	2.4	0	

In his report he also stated some thing else which no one has ever known about but which is very very interesting and if I can finally get going I have another great use for our equipment.

In between time, we did many other jobs and installed our equipment on several Luxury Liners, Research Plants etc and then my Brother, the Doctor sat down and wrote the the DHE&W and advised that they had better get busy doing something to or about two great problems that were developing - Water and Air Pollution- They answered by practically telling him to mind his business and that they had everything well in hand.

One day, this was back in 1958 my Brother said, "Donald we should start in to design and fabricate Air Pollution Elimination Units as the field will be terrific. Then started the building, tearing down only to rebuild our Units again until my Brother who insisted upon everything being perfect said that we now had the answer to any odor or air pollution problem that could develop!"

He named these Units which we registered as we did our Hydrozone Name, as our Tristomic Units, a combination of Atomic and Electronic Power and Doctor today, we have yet to find an odor these amazing and remarkable Units cannot eliminate and just recently, thru the kind assistance of a large City Fire Department, we ran tests to see what our Model No 2 L. T. Tristomic Unit could do with the very very heavy smoke from a smoke bomb in confined quarters and found, that in one hour and 10 minutes we could eliminate all of the smoke and also any smoke that might attach itself to a garment.

In the meantime whenever we felt we had a job, the DHE&W would step in or their Underlings in the various States would say nothing doing, you must use chlorination. Then we tried another attack. We asked for a small Grant to do research work on sewage waste effluents because with our portable Unit and under trying conditions, we were able to knock down the B.O.D. of the effluent of a Textile Plant by 50%.

We tried to show thru tests reports about the great possibilities of our equipment and its ability to produce large quantities of Ozone at ridiculously low operating costs but were told there was no such money available.

Then my Brother doing research plant at a Trickling Filter, feeling there was a terrific opportunity for the use of Ozone there, had a bad fall and for 2 weeks was paralyzed. He recovered and seemed to be his old self, but about 6 months later he complained about his throat hurting him. We got into the hands of a Quack who did nothing but stick needles in my Brother telling him he was getting better and in the meantime taking \$15.00 a shot. Then one day in Gainesville, we went into the new hospital where he was examined and told he had a large tumor on his throat but The Medical Center in Jacksonville had a wonderful Cobalt Machine.

Then started Cobalt Treatments for a year. Then Radium Needles and finally the taking off of his jaw and when that was done, I could see what the Cobalt had done to the artery going to his brain. Three and one half years we fought to save my Brother only to have the artery burst but after being sewed up, he seemed to be recovering and wrote me a note saying "Donald we will lick this thing and when I get on my feet we will lick the world with Hydrozone because from what I have seen of Hospitals there isn't one in the country that does not need our Hydrozone Water and Triatomic Units to eliminate the stench".

Finally a nurse gave him a wrong formulae, his breathe started to come slower and slower and although I was yelling for an Oxygen Tent, it took them 3/4 of an hour to get one with the result a great brother, doctor and a man that could do so much for the health of the people of America passed away.

I went down from I70 to I26 and still cannot get back above I30 but in the meantime, the FWPCA has handed out \$520,000 to Linde Process and now \$638,000.00 Air Reduction to do research work with Ozone Waste Effluents and here I sit with equipment far superior than anything they have. I will admit Assistant Secretary of the Department of Interior, Carl Klein said we were in line for a Research Grant and he would advise that we try to get some City, University or Sewage Company ask for the Grant based upon utilizing Hydrozone Equipment and Hydron's Method of the treatment of Waste Waters.

The reason for this letter is two fold. First and foremost no one down here wants to use Ozone. It is chlorine or nothing. Therefore would you and your University be interested in our both combining and securing a Grant but if not, in my fight with this very vicious combination of the DHEW and the Great Chemical Lobby in Washington, I would deeply appreciate your giving me some bullets I can use against the use of chlorination for drinking, domestic, industrial and sewage disposal waste effluents. I do know our hospitals are loaded with patients with stomach, intestinal, kidney and liver ailments due to their having to drink chlorinated water supplies. The younger generation are also contracting all sorts of ailments from chlorinated pools and it is an absolute fact that thru the use of chlorine to treat sewage waste effluents, the fish and shell fish are being killed off by the millions daily. Incidentally a lake down here that due to heat, evaporation and loss of oxygen was losing its fish by the hundreds, asked what we could do and we proposed sending our Portable Unit to replace the Oxygen. The State Board of Health objected and so they bought two large compressors, laid pipe on the bottom of the lake and tried in that ridiculous way to provide oxygen. The fish are still dying.

There used to be an old adage, "If you have a perfect product the world will beat a pathway to your door." To-day it reads, "If you have the money to advertise, you can sell anything no matter how bad it may be."

I would be very pleased to send you some data and pictures of our equipment if you would be interested plus I hope you can assist me by providing me with some ammunition to fight these poor Old Rip Van Winkles, and last but not least, I honestly believe if you could see your way clear to interesting your Department and/or University in going after a Grant not alone to treat sewage waste effluents, but on drinking water plus a very very important thing I have in mind Healthwise, I believe with Hydrozone Equipment and your vast knowledge, we can startle the world.

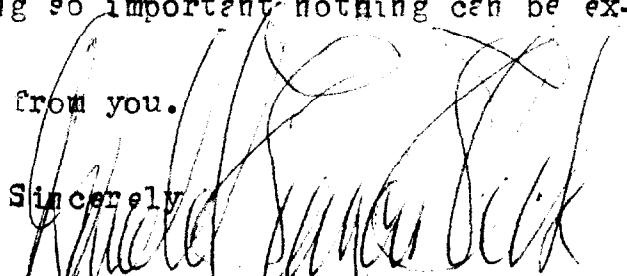
Frankly I have become so frustrated I sometime feel I should sell out completely, but then I think of my Brother, the Doctor, and the way he used to talk about what was going to happen with Hydrozone when we really got rolling and I decided I will stick it out until the end.

Frankly Doctor, the use of Ozone as produced and applied by Hydrozone has a possibility when he comes to the treatment of water supplies, swimming pool waters, sewage waste effluents, recycling and the use of industrial waters plus for the elimination of our Great Air Pollution Problems that no other firm in the country or equipment has to-day because it is no wishful thought that we can do the jobs because we have already done them but lack the money now to put Hydrozone over the top and if you could help us, we certainly would hope you could see your way clear to go along with us.

I trust you will pardon this long letter but the health and happiness of our people and the savings of millions of dollars to industry is one of the most important problems we have to-day and being so important nothing can be explained in a few short sentences.

May we have the great pleasure of hearing from you.

Sincerely,


HYDROZONE CORPORATION OF AMERICA
Donald Francis Fleck, Secretary

dff/gl